## SEQUENCE LISTING

```
<110> Alan, GEWIRTZ
<120> METHODS OF USE OF BCL-6-DERIVED NUCLEOTIDES TO INDUCE APOPTOSIS
<130> P-7782-US
<160> 18
<170> PatentIn version 3.3
<210>
       31
<211>
<212>
      DNA
      Artificial
<213>
<220>
<223> SQRM
<400> 1
ctgggggcaa aggctctgct ctcacaccca g
                                                                       31
       2
<210>
<211> 34
<212> DNA
<213> Artificial
<220>
<223> SQRM
<400> 2
                                                                       34
ggctgagggg gcagcaggtt tgaggccctc agcc
<210>
       32
<211>
<212>
      DNA
<213> Artificial
<220>
<223> SQRM
<400> 3
                                                                       32
gctgaggggg cagcaggttt gaggccctca gc
<210>
<211>
       28
<212>
      DNA
      Artificial
<213>
<220>
      SQRM
<223>
<400> 4
                                                                        28
tgaggggca gcaggtttga ggccctca
       5
<210>
       35
<211>
<212>
      DNA
      Artificial
<213>
<220>
<223> SQRM
<400> 5
```

Page 1

| gcctgg                           | agga tgcaggcatt                   | cttactgctg | caggc |   |   | 35 |
|----------------------------------|-----------------------------------|------------|-------|---|---|----|
| <210><br><211><br><212><br><213> | 6<br>33<br>DNA<br>Artificial      |            |       |   |   |    |
| <220><br><223>                   | SQRM                              |            |       |   | • |    |
| <400><br>aggcto                  | 6<br>gtgg ggaaaggcgg              | cccagctcag | cct   |   |   | 33 |
| <210><br><211><br><212><br><213> | 7<br>26<br>DNA<br>Artificial      |            |       | · |   |    |
| <220><br><223>                   | SQRM                              |            |       |   |   |    |
| <400><br>gctctc                  | 7<br>cgctg ctgctgcggg             | gagagc     |       |   |   | 26 |
| <210><br><211><br><212><br><213> | 8<br>26<br>DNA<br>Artificial      |            |       |   |   |    |
| <220><br><223>                   | SQRM                              |            |       |   |   |    |
| <400><br>acctgt                  | 8<br>cacaa atctggctcc             | gcaggt     |       |   |   | 26 |
| <210><br><211><br><212><br><213> | 9<br>33<br>DNA<br>Artificial      |            |       |   |   |    |
| <220><br><223>                   | SQRM                              |            |       |   |   |    |
| <400><br>cggagg                  | 9<br>gtggg ccacctgtac             | aaatctggct | ccg   |   |   | 33 |
| <210><br><211><br><212><br><213> | 10<br>21<br>DNA<br>Artificial     |            |       |   |   |    |
| <220><br><223>                   | SQRM                              |            |       |   |   |    |
| <400><br>aagcat                  | 10<br>ccaac actccatgct            | t          |       |   |   | 21 |
| <210><br><211><br><212><br><213> | 11<br>3536<br>DNA<br>Homo sapiens |            |       |   |   |    |
| <400>                            | 11                                |            |       |   |   |    |

| ggcccctcga | gcctcgaacc | ggaacctcca | aatccgagac           | gctctgctta | tgaggacctc |  |
|------------|------------|------------|----------------------|------------|------------|--|
| gaaatatgcc | ggccagtgaa | aaaatcttat | ggctttgagg           | gcttttggtt | ggccaggggc |  |
| agtaaaaatc | tcggagagct | gacaccaagt | cctcccctgc           | cacgtagcag | tggtaaagtc |  |
| cgaagctcaa | attccgagaa | ttgagctctg | ttgattctta           | gaactggggt | tcttagaagt |  |
| ggtgatgcaa | gaagtttcta | ggaaaggccg | gacaccaggt           | tttgagcaaa | attttggact |  |
| gtgaagcaag | gcattggtga | agacaaaatg | gcctcgccgg           | ctgacagctg | tatccagttc |  |
| acccgccatg | ccagtgatgt | tcttctcaac | cttaatcgtc           | tccggagtcg | agacatcttg |  |
| actgatgttg | tcattgttgt | gagccgtgag | cagtttagag           | cccataaaac | ggtcctcatg |  |
| gcctgcagtg | gcctgttcta | tagcatcttt | acagaccagt           | tgaaatgcaa | ccttagtgtg |  |
| atcaatctag | atcctgagat | caaccctgag | ggattctgca           | tcctcctgga | cttcatgtac |  |
| acatctcggc | tcaatttgcg | ggagggcaac | atcatggctg           | tgatggccac | ggctatgtac |  |
| ctgcagatgg | agcatgttgt | ggacacttgc | cggaagttta           | ttaaggccag | tgaagcagag |  |
| atggtttctg | ccatcaagcc | tcctcgtgaa | gagttcctca           | acagccggat | gctgatgccc |  |
| caagacatca | tggcctatcg | gggtcgtgag | gtggtggaga           | acaacctgcc | actgaggagc |  |
| gcccctgggt | gtgagagcag | agcctttgcc | cccagcctgt           | acagtggcct | gtccacaccg |  |
| ccagcctctt | attccatgta | cagccacctc | cctgtcagca           | gcctcctctt | ctccgatgag |  |
| gagtttcggg | atgtccggat | gcctgtggcc | aaccccttcc           | ccaaggagcg | ggcactccca |  |
| tgtgatagtg | ccaggccagt | ccctggtgag | tacagccggc           | cgactttgga | ggtgtccccc |  |
| aatgtgtgcc | acagcaatat | ctattcaccc | aaggaaacaa           | tcccagaaga | ggcacgaagt |  |
| gatatgcact | acagtgtggc | tgagggcctc | aaacctgctg           | cccctcagc  | ccgaaatgcc |  |
| ccctacttcc | cttgtgacaa | ggccagcaaa | gaagaagaga           | gaccctcctc | ggaagatgag |  |
| attgccctgc | atttcgagcc | ccccaatgca | cccctgaacc           | ggaagggtct | ggttagtcca |  |
| cagagccccc | agaaatctga | ctgccagccc | aactcgccca           | cagaggcctg | cagcagtaag |  |
| aatgcctgca | tcctccaggc | ttctggctcc | cctccagcca           | agagccccac | tgaccccaaa |  |
| gcctgcaact | ggaagaaata | caagttcatc | gtgctcaaca           | gcctcaacca | gaatgccaaa |  |
| ccaggggggc | ctgagcaggc | tgagctgggc | cgcctttccc           | cacgagccta | cacggcccca |  |
| cctgcctgcc | agccacccat | ggagcctgag | aaccttgacc           | tccagtcccc | aaccaagctg |  |
| agtgccagcg | gggaggactc | caccatccca | caagccagcc           | ggctcaataa | catcgttaac |  |
| aggtccatga | cgggctctcc | ccgcagcagc | agcgagagcc           | actcaccact | ctacatgcac |  |
| ccccgaagt  | gcacgtcctg | cggctctcag | tccccacagc           | atgcagagat | gtgcctccac |  |
| accgctggcc | ccacgttcgc | tgaggagatg | ggagagaccc           | agtctgagta | ctcagattct |  |
| agctgtgaga | acggggcctt | cttctgcaat | gagtgtgact           | gccgcttctc | tgaggaggcc |  |
| tcactcaaga | ggcacacgct | gcagacccac | agtgacaaac           | cctacaagtg | tgaccgctgc |  |
| caggcctcct | tccgctacaa | gggcaacctc | gccagccaca           | agaccgtcca | taccggtgag |  |
| aaaccctatc | gttgcaacat | ctgtggggcc | cagttcaacc<br>Page 3 | ggccagccaa | cctgaaaacc |  |

```
2160
cacactcgaa ttcactctgg agagaagccc tacaaatgcg aaacctgcgg agccagattt
                                                                     2220
gtacaggtgg cccacctccg tgcccatgtg cttatccaca ctggtgagaa gccctatccc
tgtgaaatct gtggcacccg tttccggcac cttcagactc tgaagagcca cctgcgaatc
                                                                     2280
                                                                     2340
cacacaggag agaaacctta ccattgtgag aagtgtaacc tgcatttccg tcacaaaagc
                                                                     2400
cagctgcgac ttcacttgcg ccagaagcat ggcgccatca ccaacaccaa ggtgcaatac
cgcgtgtcag ccactgacct gcctccggag ctccccaaag cctgctgaag catggagtgt
                                                                     2460
                                                                     2520
tgatgctttc gtctccagcc ccttctcaga atctacccaa aggatactgt aacactttac
                                                                     2580
aatgttcatc ccatgatgta gtgcctcttt catccactag tgcaaatcat agctgggggt
tgggggtggt gggggtcggg gcctggggga ctgggagccg cagcagctcc ccctcccca
                                                                     2640
ctgccataaa acattaagaa aatcatattg cttcttctcc tatgtgtaag gtgaaccatg
                                                                     2700
tcagcaaaaa gcaaaatcat tttatatgtc aaagcagggg agtatgcaaa agttctgact
                                                                     2760
tgactttagt ctgcaaaatg aggaatgtat atgttttgtg ggaacagatg tttcttttgt
                                                                     2820
atgtaaatgt gcattctttt aaaagacaag acttcagtat gttgtcaaag agagggcttt
                                                                     2880
                                                                     2940
aattttttta accaaaggtg aaggaatata tggcagagtt gtaaatatat aaatatatat
atatataaaa taaatatata taaacctaac aaagatatat taaaaatata aaactgcgtt
                                                                     3000
aaaggctcga ttttgtatct gcaggcagac acggatctga gaatctttat tgagaaagag
                                                                     3060
                                                                     3120
cacttaagag aatattttaa gtattgcatc tgtataagta agaaaatatt ttgtctaaaa
                                                                     3180
tgcctcagtg tatttgtatt tttttgcaag tgaaggttta caatttacaa agtgtgtatt
aaaaaaaacc caaagaaccc aaaaatctgc agaaggaaaa atgtgtaatt ttgttctagt
                                                                     3240
                                                                     3300
tttcagtttg tatatacccg tacaacgtgt cctcacggtg ccttttttca cggaagtttt
caatgatggg cgagcgtgca ccatcccttt ttgaagtgta ggcagacaca gggacttgaa
                                                                     3360
gttgttacta actaaactct ctttgggaat gtttgtctca tcccattctg cgtcatgctt
                                                                     3420
gtgtgataac tactccggag acagggtttg gctgtgtcta aactgcatta ccgcgttgta
                                                                     3480
aaaaatagct gtaccaatat aagaataaaa tgttggaaag tcgcaaaaaa aaaaaa
                                                                     3536
<210>
       12
<211>
       20
<212>
       DNA
       Artificial
<220>
<223>
       primer
<400>
       12
                                                                       20
ccaaccaagc tgagtgccag
<210>
       13
       22
<211>
<212>
       DNA
       Artificial
```

<220> <223>

primer

| <400><br>ggtgca                  | tgta gagtggtgag               | tg         | 22 |
|----------------------------------|-------------------------------|------------|----|
| <210><br><211><br><212><br><213> | 14<br>24<br>DNA<br>Artificial |            |    |
| <220><br><223>                   | probe                         |            |    |
| <400><br>ctccac                  | 14<br>catc ccacaagcca         | gccg       | 24 |
| <210><211><212><213>             | 15<br>24<br>DNA<br>Artificial |            |    |
| <220><br><223>                   | primer                        |            |    |
| <400><br>ggacat                  | 15<br>ctaa gggcatcaca         | gacc       | 24 |
| <210><br><211><br><212><br><213> | 16<br>23<br>DNA<br>Artificial |            |    |
| <220><br><223>                   | primer                        |            |    |
| <400><br>tgactc                  | 16<br>aaca cgggaaacct         | cac        | 23 |
| <210><br><211><br><212><br><213> | 17<br>26<br>DNA<br>Artificial |            |    |
| <220><br><223>                   | probe                         |            |    |
| <400><br>tggctg                  | 17<br>aacg ccacttgtcc         | ctctaa     | 26 |
| <210><br><211><br><212><br><213> | 18<br>30<br>DNA<br>Artificial |            |    |
| <220><br><223>                   | SQRM                          |            |    |
| <400><br>tgtctg                  | 33<br>gttg caaagcctgg         | cataaagaca | 30 |